

- 1 -

SEQUENCE LISTING

<110> Bayer HealthCare AG

<120> Diagnostics and Therapeutics for Diseases Associated with
Putative Cysteine Protease 1 (PRSC1)

<130> BHC 04 01 034

<160> 5

<170> PatentIn version 3.2

<210> 1

<211> 1393

<212> DNA

<213> Homo sapiens

<400> 1

```

gccgccgccg ccaccactgc caccacgggc gcctgccaca ggtgtctgca attgaactcc      60
aagggtgcaga atggttttga aagtagctgt attcctcagt gtggccctgg gcattggtgc      120
cgttcctata gatgatcctg aagatggagg caagcactgg gtggtgatcg tggcagggttc      180
aaatggctgg tataattata ggcaccaggc agacgcgtgc catgcctacc agatcattca      240
ccgcaatggg attcctgacg aacagatcgt tgtgatgatg tacgatgaca ttgcttactc      300
tgaagacaat ccactccag gaattgtgat caacaggccc aatggcacag atgtctatca      360
gggagtcccc aaggactaca ctggagagga tgttacccca caaaatttcc ttgctgtgtt      420
gagaggcgat gcagaagcag tgaagggcat aggatccggc aaagtcctga agagtggccc      480
ccaggatcac gtgttcattt acttcaactga ccatggatct actggaatac tggtttttcc      540
caatgaagat cttcatgtaa aggacctgaa tgagaccatc cattacatgt acaaacacaa      600
aatgtaccga aagatgggtg tctacattga agcctgtgag tctgggtcca tgatgaacca      660
cctgccggat aacatcaatg tttatgcaac tactgctgcc aaccccagag agtcgtccta      720
cgcctgttac tatgatgaga agagggtccac gtacctgggg gactggtaca gcgtcaactg      780
gatggaagac tcggacgtgg aagatctgac taaagagacc ctgcacaagc agtaccacct      840
ggtaaaatcg cacaccaaca ccagccacgt catgcagtat ggaaacaaaa caatctccac      900
catgaaagtg atgcagtttc agggatatgaa acgcaaagcc agttctcccg tccccctacc      960
tcagtcaca caccttgacc tcaccccag ccctgatgtg cctctcacca tcatgaaaag     1020
gaaactgatg aacaccaatg atctggagga gtccaggcag ctacaggagg agatccagcg     1080
gcatctggat gccaggcacc tcattgagaa gtcagtgcgt aagatcgtct ccttgctggc     1140
agcgtccgag gctgagggtg agcagctcct gtccgagaga gcccgcgtca cggggcacag     1200
ctgctaccca gaggcctgc tgcacttccg gaccactgc ttcaactggc actccccac     1260
gtacgagtat gcgttgagac atttgtacgt gctggtcaac ctttgtgaga agcgtatcc     1320
acttcacagg ataaaattgt ccatggacca cgtgtgcctt ggtcactact gaagagctgc     1380
ctcctggaag ctt

```

- 2 -

<210> 2
 <211> 433
 <212> PRT
 <213> Homo sapiens

<400> 2

```

Met Val Trp Lys Val Ala Val Phe Leu Ser Val Ala Leu Gly Ile Gly
1           5           10           15
Ala Val Pro Ile Asp Asp Pro Glu Asp Gly Gly Lys His Trp Val Val
           20           25           30
Ile Val Ala Gly Ser Asn Gly Trp Tyr Asn Tyr Arg His Gln Ala Asp
           35           40           45
Ala Cys His Ala Tyr Gln Ile Ile His Arg Asn Gly Ile Pro Asp Glu
           50           55           60
Gln Ile Val Val Met Met Tyr Asp Asp Ile Ala Tyr Ser Glu Asp Asn
65           70           75           80
Pro Thr Pro Gly Ile Val Ile Asn Arg Pro Asn Gly Thr Asp Val Tyr
           85           90           95
Gln Gly Val Pro Lys Asp Tyr Thr Gly Glu Asp Val Thr Pro Gln Asn
           100          105          110
Phe Leu Ala Val Leu Arg Gly Asp Ala Glu Ala Val Lys Gly Ile Gly
           115          120          125
Ser Gly Lys Val Leu Lys Ser Gly Pro Gln Asp His Val Phe Ile Tyr
           130          135          140
Phe Thr Asp His Gly Ser Thr Gly Ile Leu Val Phe Pro Asn Glu Asp
145          150          155          160
Leu His Val Lys Asp Leu Asn Glu Thr Ile His Tyr Met Tyr Lys His
           165          170          175
Lys Met Tyr Arg Lys Met Val Phe Tyr Ile Glu Ala Cys Glu Ser Gly
           180          185          190
Ser Met Met Asn His Leu Pro Asp Asn Ile Asn Val Tyr Ala Thr Thr
           195          200          205
Ala Ala Asn Pro Arg Glu Ser Ser Tyr Ala Cys Tyr Tyr Asp Glu Lys
           210          215          220
Arg Ser Thr Tyr Leu Gly Asp Trp Tyr Ser Val Asn Trp Met Glu Asp
225          230          235          240
Ser Asp Val Glu Asp Leu Thr Lys Glu Thr Leu His Lys Gln Tyr His
           245          250          255
Leu Val Lys Ser His Thr Asn Thr Ser His Val Met Gln Tyr Gly Asn
           260          265          270
Lys Thr Ile Ser Thr Met Lys Val Met Gln Phe Gln Gly Met Lys Arg
           275          280          285
Lys Ala Ser Ser Pro Val Pro Leu Pro Pro Val Thr His Leu Asp Leu
290          295          300

```

- 3 -

Thr Pro Ser Pro Asp Val Pro Leu Thr Ile Met Lys Arg Lys Leu Met
 305 310 315 320
 Asn Thr Asn Asp Leu Glu Glu Ser Arg Gln Leu Thr Glu Glu Ile Gln
 325 330 335
 Arg His Leu Asp Ala Arg His Leu Ile Glu Lys Ser Val Arg Lys Ile
 340 345 350
 Val Ser Leu Leu Ala Ala Ser Glu Ala Glu Val Glu Gln Leu Leu Ser
 355 360 365
 Glu Arg Ala Pro Leu Thr Gly His Ser Cys Tyr Pro Glu Ala Leu Leu
 370 375 380
 His Phe Arg Thr His Cys Phe Asn Trp His Ser Pro Thr Tyr Glu Tyr
 385 390 395 400
 Ala Leu Arg His Leu Tyr Val Leu Val Asn Leu Cys Glu Lys Pro Tyr
 405 410 415
 Pro Leu His Arg Ile Lys Leu Ser Met Asp His Val Cys Leu Gly His
 420 425 430
 Tyr

<210> 3
 <211> 20
 <212> DNA
 <213> artificial sequence

<220>
 <223> forward primer

<400> 3
 tgagtctggg tccatgatga

20

<210> 4
 <211> 20
 <212> DNA
 <213> artificial sequence

<220>
 <223> reverse primer

<400> 4
 gttggcagca gtagttgcat

20

<210> 5
 <211> 24
 <212> DNA
 <213> artificial sequence

- 4 -

<220>

<223> probe

<400> 5

ccacctgccg gataacatca atgt

24